Fig. 1

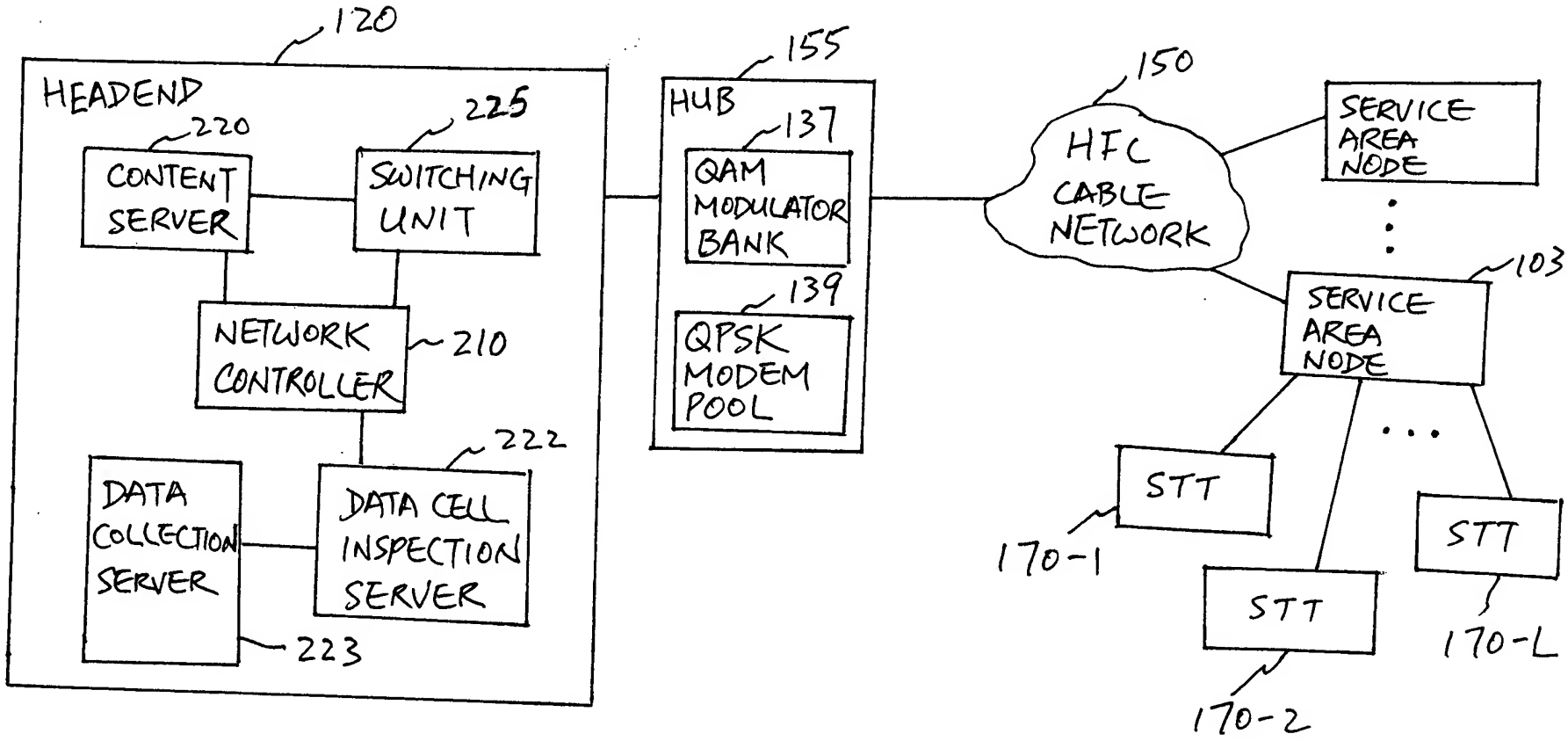

120
HEADEND
220
CONTENT SERVER
225
SWITCHING UNIT
NETWORK CONTROLLER
210
222
DATA COLLECTION SERVER
DATA CELL INSPECTION SERVER
223
155
HUB
137
QAM MODULATOR BANK
139
QPSK MODEM POOL
150
HFC CABLE NETWORK
SERVICE AREA NODE
103
SERVICE AREA NODE
STT
170-1
STT
STT
170-2
STT
170-L

Fig. 2

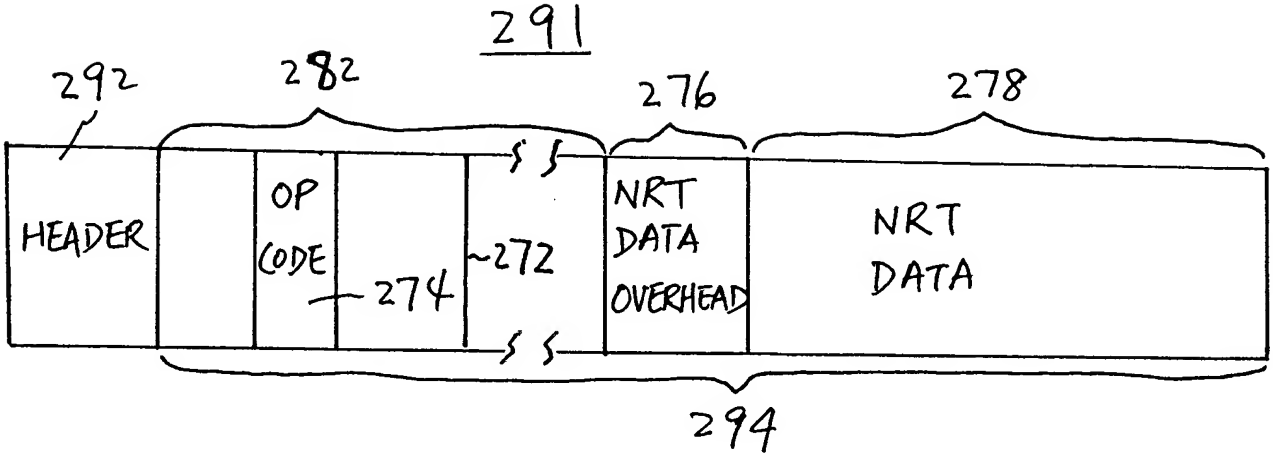

291
292
282
276
278
HEADER
OP CODE
274
272
NRT DATA OVERHEAD
NRT DATA
294

Fig. 3

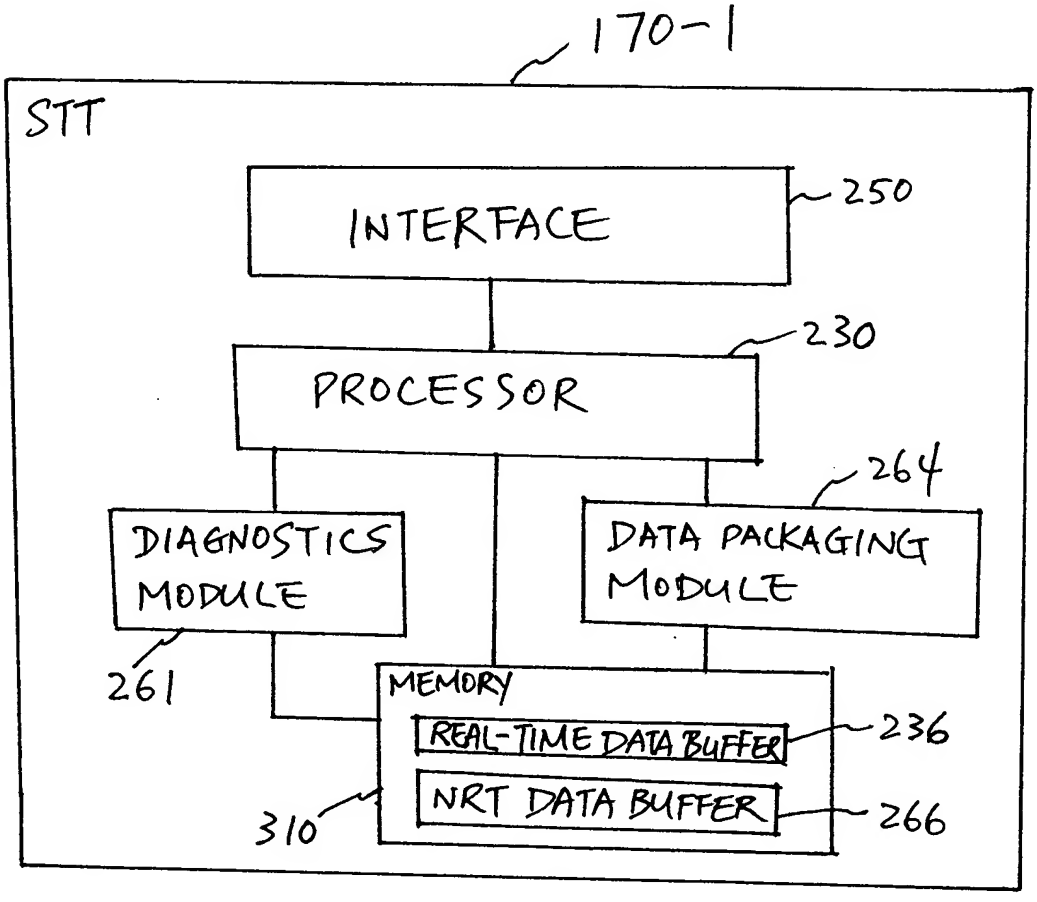
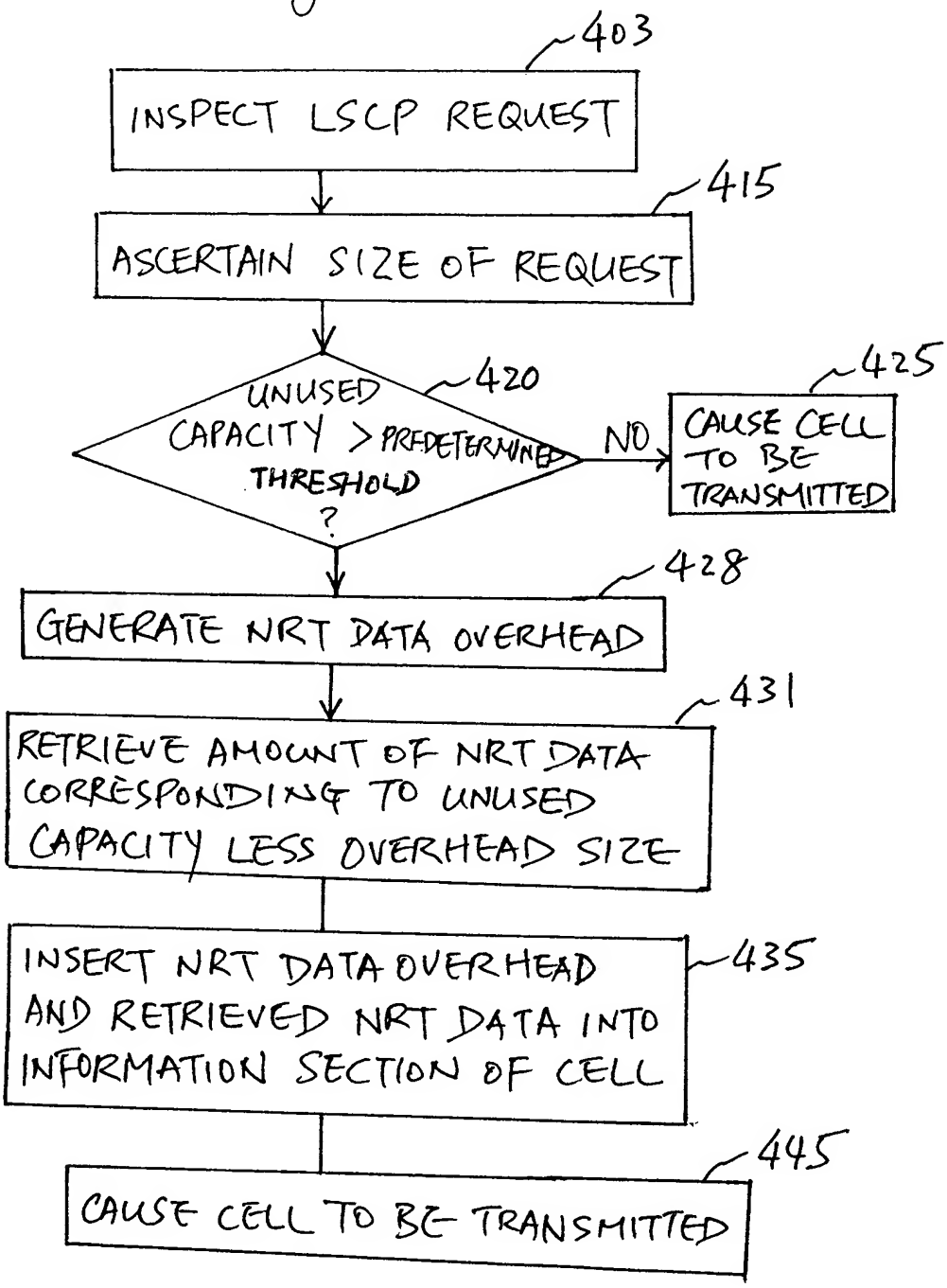

170-1
STT
INTERFACE
250
PROCESSOR
230
264
DIAGNOSTICS MODULE
DATA PACKAGING MODULE
261
MEMORY
REAL-TIME DATA BUFFER
236
310
NRT DATA BUFFER
266

Fig. 4


403
INSPECT LSCP REQUEST
415
ASCERTAIN SIZE OF REQUEST
420
UNUSED CAPACITY > PREDETERMINED THRESHOLD ?
NO
425
CAUSE CELL TO BE TRANSMITTED
428
GENERATE NRT DATA OVERHEAD
431
RETRIEVE AMOUNT OF NRT DATA CORRESPONDING TO UNUSED CAPACITY LESS OVERHEAD SIZE
435
INSERT NRT DATA OVERHEAD AND RETRIEVED NRT DATA INTO INFORMATION SECTION OF CELL
445
CAUSE CELL TO BE TRANSMITTED

530

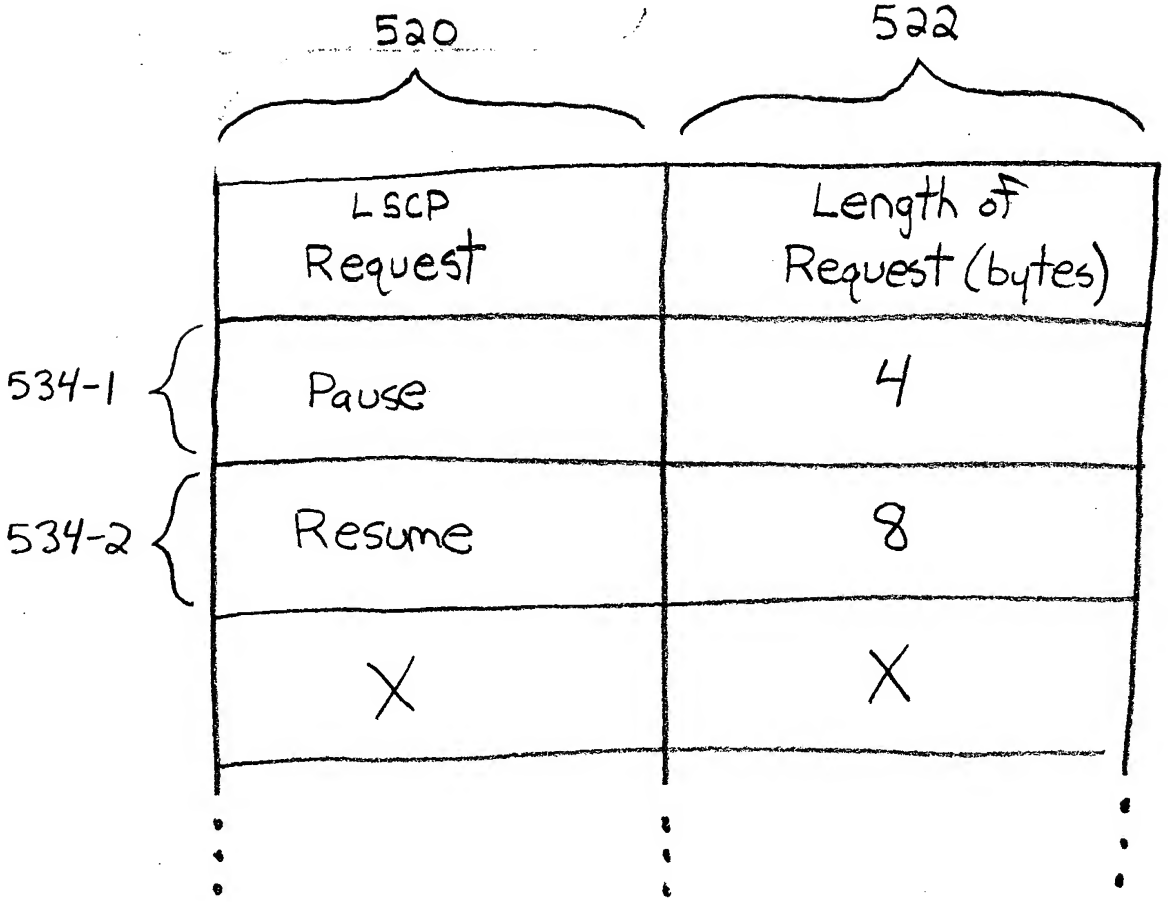

520
522
LSCP Request
Length of Request (bytes)
534-1
Pause
4
534-2
Resume
8
X
X

Fig. 5